Patent Claims:

- Semifinished product of composite material, consisting of 1. 1 a metallic matrix material (11) and of high tensile 2 strength fibers (12) embedded in the matrix material (11), 3 whereby the metallic matrix material (11) is formed of titanium or a titanium based alloy, characterized in that 5 ceramic particles (13) are encased or embedded in the 6 matrix material (11) for increasing the strength of the 7 semifinished product with respect to torsional loading or 8 9 transverse loading.
- 2. Semifinished product according to claim 1, characterized in that the embedded ceramic particles (13) comprise a size in the micron range to the nanometer range.
- 3. Semifinished product according to claim 1 or 2, characterized in that the embedded ceramic particles (13) are uniformly distributed in the matrix material (11).
- 1 4. Semifinished product according to one or more of the claims
 2 1 to 3, characterized in that the embedded high tensile
 3 strength fibers (12) are silicon carbide fibers.
- 5. Semifinished product according to one or more of the claims
 2 to 4, characterized in that the embedded ceramic
 3 particles (23) are formed of titanium nitride.

- Method for the production of a semifinished product (10) of 6. 1 composite material, in which fibers (12) that are of high 2 3 tensile strength as well as coated metallically namely with titanium or a titanium based alloy are consolidated under the influence of pressure at high temperature to form the semifinished product (10), characterized in that connection with the coating of the high tensile strength 7 fibers (12) with titanium or the titanium based alloy, 8 ceramic particles (13) are embedded in the coating of the fibers, whereby the thusly coated fibers are arranged in a 10 desired geometry and consolidated to form the semifinished 11 12 product.
- 7. Method according to claim 6, characterized in that the coating of the high tensile strength fibers (12) with titanium or the titanium based alloy is carried out under a reactive atmosphere.
- Method according to claim 7, characterized in that the coating of the high tensile strength fibers (12) with titanium or the titanium based alloy is carried out under a nitrogen atmosphere, whereby nitrogen atoms together with titanium particles or particles of the titanium based alloy deposit ceramic particles (13) into the coating.
- 9. Method according to claim 8, characterized in that ceramic particles (13) in the form of titanium nitrides are deposited into the coating.

- 1 10. Method according to one or more of the claims 6 to 9, characterized in that the coating is carried out as PVD
- coating, preferably as sputtering.